Recombinant Rat Calpain small subunit 1 (Capns1)

Product Code	CSB-MP731059RA
Abbreviation	Capns1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q64537
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MFLVNSFLKG GGGGGGGGGL GGGLGNVLGG LISGAAGGGG GGGGGGGMGL GGGGGGGGTA MRILGGVISA ISEAAAQYNP EPPPPRSHYS NIEANESEEE RQFRKLFVQL AGDDMEVSAT ELMNILNKVV TRHPDLKTDG FGIDTCRSMV AVMDSDTTGK LGFEEFKYLW NNIKKWQGIY KRFDTDRSGT IGSNELPGAF EAAGFHLNQH IYSMIIRRYS DETGNMDFDN FISCLVRLDA MFRAFRSLDK NGTGQIQVNI QEWLQLTMYS
Source	Mammalian cell
Target Names	Capns1
Protein Names	Recommended name: Calpain small subunit 1 Short name= CSS1 Alternative name(s): Calcium-activated neutral proteinase small subunit Short name= CANP small subunit Calcium-dependent protease small subunit Short name= CDPS
Expression Region	1-270
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. This gene encodes a small subunit common to both calpain I and II and is associated with myotonic dystrophy. Two transcript variants encoding the same protein have been identified for this gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a

	concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.